

COLOR DETECTOR

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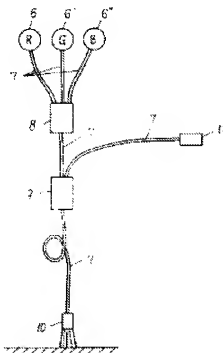
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Abstract of JP56016826

PURPOSE: To detect colors throughout visible rays with a simple constitution, by using a tri-color light source and by constituting the color detector so that light emission may be performed in time division to detect colors.

CONSTITUTION: Light emitting elements 6, 6' and 6'' emit red, green and blue colors respectively, and these colors are led to synthesizer 8 through optical fibers 7. The light synthesized into one optical fiber by synthesizer 8 passes through branching equipment 9 and optical fibers 7 and is emitted from the end face of condensing lens 10 and is irradiated to an object. The reflection light goes reversely through lens 10 and optical fiber 7 and is branched to optical fibers 7' by branching equipment 9 and reaches detector 11. By performing light emission of red, green and blue in time division in the light path above, a branching filter is not required, and color detection throughout visible rays can be performed with a simple constitution.



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